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# EARLY GEOLOGY BOOKS

*including books from*

Thomas Cooper's personal  
library

*and*

The C. Warren Irvin, Jr.,  
Collection of Charles Darwin

Graniteville Room  
Thomas Cooper Library  
University of South Carolina  
*March 2001*

This brochure is based on items displayed in early March 2001, for a class visit by Prof. Pradeep Talwani's undergraduate honors-college course in Solid Earth Geology.

Most of these books have been in the library since the early 19th century, and some were among the books of Thomas Cooper (1759-1839), professor of chemistry and second president of South Carolina College. These earlier acquisitions have recently been joined by items of geological interest in the C. Warren Irvin, Jr., Collection of Charles Darwin & Darwiniana, donated to the library in 1996.

Further background on the development of geology in the period covered by this display is available in such classic studies as Charles Coulston Gillespie's *Genesis and Geology . . . 1790-1850* (1951) and Stephen Jay Gould's *Time's Arrow, Time's Cycle: Myth & Metaphor in the Discovery of Geological Time* (1987).

## THE EXHIBIT

### 1. EARLIER WORKS

\* Ussher, James, 1581-1656. **The annals of the world: deduced from the origin of time, and continued to the beginning of the emperour Vespasians reign.**

London: Printed by E. Tyler, for J. Crook and G. Bedell, 1658. *C. Warren Irvin Collection.*

\* Burnet, Thomas, 1635?-1715.

**The sacred theory of the earth: containing an account of its original creation, and of all the general changes,**

**which it hath undergone, or is to undergo, until the consummation of all things. In two volumes. 7th ed. London: for T. Osborn [etc.], 1759. *Two copies shown, one with signature of Charles Pinckney, Charleston, March 25, 1788.***

\* Whiston, William, 1667-1752. "An appendix, containing a new theory of the deluge," in his **A new theory of the earth, from its original, to the consummation of all things. Wherein the creation of the world in six days, the universal deluge, and the general conflagration, as laid down in the Holy Scriptures, are shewn to be perfectly agreeable to reason and philosophy. 5th ed. London: for J. Whiston, 1737.**

\* Whitehurst, John, 1713-1788. **An inquiry into the original state and formation of the earth; deduced from facts and the laws of nature. 2nd ed. London: Printed for W. Bent, 1786.**

## **2. SOME NEPTUNIANS**

\* Werner, Abraham Gottlob, 1750-1817. **A treatise on the external characters of fossils. Translated . . . by Thomas Weaver. Dublin: Mahon; London: Longman, 1805. *Bound with***

\* Jameson, Robert, 1774-1854. **A treatise on the external characters of minerals. Edinburgh: Bell & Bradfute, [1805]**

\* De Luc, Jean André, 1727-1817. **Geological travels. 3 vols. London: Rivington, 1810-11.**

## **3. HUTTON AND PLAYFAIR**

\* James Hutton, 1726-1797, "Theory of the Earth; or an Investigation of the Laws observable in the Composition, Dissolution, and Restoration of Land upon



the Globe,"

in **Transactions of the Royal Society of Edinburgh**, I (1788), 209-304 (read March 7 and April 4, 1785).

\* James Hutton, selected plates from G. Y. Craig, ed., **James Hutton's Theory of the Earth: the Lost Drawings**. Edinburgh: Scottish Academic Press, 1978.

\* Playfair, John, 1748-1819. **Illustrations of the Huttonian Theory of the Earth**, in **The works of John Playfair**. 4 vols. Edinburgh: Constable, 1822.

## **5. FOSSILS AND STRATA**

\* Smith, William, 1769-1839.

**Strata identified by organized fossils, containing prints on colored paper of the most characteristic specimens in each stratum**. London: Printed by W. Arding, June 1, 1816.

\* Cuvier, Georges, baron, 1769-1832.  
**Essay on the theory of the earth. . . . With mineralogical notes, and an account of Cuvier's geological discoveries, by Professor Jameson. To which are now added, Observations on the geology of North America . . . By Samuel L. Mitchill**. New York: Kirk & Mercein, 1818.

\* Cuvier, Georges, baron, 1769-1832.  
**Discours sur les révolutions de la surface du globe: et sur les changemens qu'elles ont produits dans le règne animal**.

3. éd. française. Paris: G. Dufour et Ed. D'Ocagne, 1825. *Thomas Cooper's copy*.

\* Cuvier, Georges, baron, 1769-1832.  
Map of Paris and its surroundings, in Cuvier and Brongniart, **Description géologique des environs de Paris**, Nouv. éd. Paris, Amsterdam: G. Dufour et E. d'Ocagne, 1822.

\* Macculloch, John, 1773-1835. A

**geological classification of rocks, with descriptive synopses of the species and varieties, comprising the elements of practical geology.** London: Longman, 1821. *Thomas Cooper's copy.*

\* Humboldt, Alexander von, 1769-1859.

**A geognostical essay on the superposition of rocks in both hemispheres.** London: Longman, 1823. *Thomas Cooper's copy.*

\* Mantell, Gideon Algernon, 1790-1852.

**Illustrations of the geology of Sussex: containing a general view of the geological relations of the south-eastern part of England; with figures and descriptions of the fossils of Tilgate forest.** London: Relfe, 1827.

\* De la Beche, Henry Thomas, 1796-1855.

**Sections & views : illustrative of geological phænomena.** London: Treuttel & Würtz, 1830. On glaciers

## **6. LYELL AND DARWIN**

\* Lyell, Charles, Sir, 1797-1875. **Principles of geology, being an attempt to explain the former changes of the earth's surface, by reference to causes now in operation.** 3 vols. London: John Murray, 1830-33.

*Vols. 1 and 2 in leather from the library of Thomas Cooper with his notes; copy in boards from C. Warren Irvin Collection.*

\* Seale, Robert F. **The geognosy of the island St. Helena, illustrated in a series of views, plans and sections.**

London: Ackermann, 1834.

\* Whewell, William, 1794-1866.

**History of the inductive sciences, from the earliest to the present times.**

3 vols. London: J.W. Parker; 1837.

\* Darwin, Charles, 1809-1882,

“On the connexion of certain Volcanic Phaenomena in South America; and on the

Formation of Mountain Chains and  
Volcanos, as the Effect of the same Power  
by which Continents are elevated,"  
in **Transactions of the Geological Society**,  
5 (1842), 601-632 (read March 7, 1838).

\* Darwin, Charles, 1809-1882

**Journal of researches into the geology  
and natural history of the various  
countries visited by H. M. S. Beagle,  
under the command of Captain FitzRoy,  
R. N., from 1832 to 1836.** London:

Colburn, 1839. Original brown cloth. *C.  
Warren Irvin Collection.*

\* Charles Darwin, "Geology," pp. 156-195,  
in Sir John F. W. Herschel, bart.,  
1792-1871, ed. **A manual of scientific  
enquiry; prepared for the use of Her  
Majesty's navy.** London: John Murray,  
1849.

## **INFORMATION & HOURS**

Further information on individual items is  
best sought through the library's on-line  
catalogue, on the web at [www.sc.edu/uscan](http://www.sc.edu/uscan).  
A web-exhibit on the C. Warren Irvin  
Collection and introductions to other  
collections are available at [http://www.  
sc.edu/library/spcoll/rarebook.html](http://www.sc.edu/library/spcoll/rarebook.html).

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Special Collections is located on the  
mezzanine level of Thomas Cooper Library.  
The Graniteville Reading Room is open to  
registered readers from 8 a.m. to 4.30 p.m.,  
Monday to Friday. For further information  
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